Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

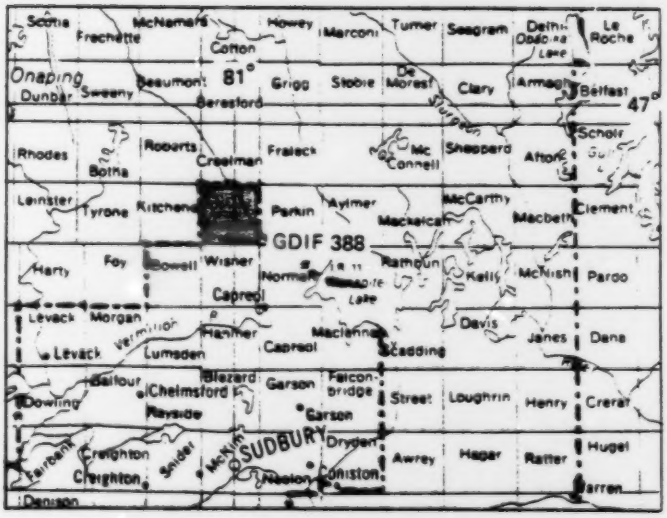
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 388

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 41 I 14/15

Mining Claim Map Number M1049

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

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ACCOMPANYING MAPS

Property Location Map 1
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Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g t
1 g t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) ton (short)	20.0	pennyweights ton (short)
1 pennyweight ton (short)	0.05	ounce (troy) ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.A.
2	Assessment Files Research Office, Toronto	N. A.	R.A.
3	ODM General Index; 9 Volumes	Yes	R.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	R.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R.A.
6	ODM Industrial Mineral Reports	No	R.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.A.
9	Newspaper Clippings File	Yes	R.A.
10	GSC Index to Publications	Yes	R.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.A.
12	OGS Index Maps	Yes	R.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	R.A.
14	Author - Subject Articles File	Yes	R.A.
15	Miscellaneous Papers: ODM & OGS	Yes	R.A.
16	ODM Geological Circulars: OGS Study Series	Yes	R.A.
17	ODM Preliminary Reports: ODM Bulletins	No	R.A.
18	ODM – OGS Open File Reports	Yes	R.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.A.
20	OGS Aggregate Resources Inventory Papers	No	R.A.
21	OGS Mineral Potential Maps	Yes	R.A.
22	Theses on File, Sudbury	Yes	R.A.
23	Aerial Photographs on File, Sudbury	Yes	R.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
▲ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
▲ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
▲ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . .Galena
△ gt . . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . .Ilmenite
▲ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
▲ mag . . . . . .Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . .Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . .Millerite
△ mo . . . . . .Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
▲ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . .Quartz
△ qcv . . . . .Quartz carbonate vein
▲ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
▲ si . . . . . .Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
▲ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
▲ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
▲ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr. . . . . Zircon
▲ S. . . . . .Sulphur
▲ P. . . . . .Phosphorus

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps and pages.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Assembly Mines 1A (Doyon, MacLeod, McIntosh Assocs., Gui-Por Uranium and Metal, Hudson's Bay Expln. & Dev.)	U	SMDR 400 U4	MRC 9, p. 74	GR 80, pp. 64-66 GR 1, p. 26
B	Assembly Mines 2A (Fano Uranium Mines International Mine Services, Gulf Minerals Canada)	U, Th, py	SMDR 399 U1	MRC 9, p. 73	GR 80, pp. 64-66
C	Copenhagen Occurrence	Ni	--	MRC 12, p. 278	AR 41, pt. 4, p. 38 ODM Map 41e, 1" = 3/4 mile
D	Fraser Lake Occurrence	Cu, Fe	--	MRC 12, p. 278 MRC 11, p. 342	ODM Map P.399
E	Fraser Lake Placers	Au	--	MDC 18, p. 106	GR 80, p. 38
F	Moose Mountain Consolidated	sp, gn, cp, po, py, asp, Au, Ag	--	--	File 0034
G	Moose Mountain Mine, No. 3 Pit	mag	SMDR 988 Fe1	MRC 11, p. 342	File 0033-B1 See ODM General Index Search
H	Moose Mountain Mine No. 2 South Pit	ibid	ibid	ibid	ibid
I	Moose Mountain Mine No. 2 North Pit	ibid	ibid	ibid	ibid
J	Moose Mountain Mine No. 10 Pit	ibid	ibid	ibid	ibid
K	Moose Mountain Mine No. 11 South Pit	ibid	ibid	ibid	ibid

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
L	Queensland (Placer) Occurrence	Au	--	MDC 18, p. 106	File 0025
M	Concor-Chibougamau Mines	Au	--	--	File 0012, 0028
N	Limestone	calc	--	--	GR 80, pp. 68, 69

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SEISMIC		
1	Amax Potash Ltd. (Amax Minerals Exploration Ltd., Kerr Addison Mines Ltd) (0010-E1, 0017, 0027)	76		76	77	77			76		76			76						
2	Bohme, J. D. S. (Gui-Por Uranium Mines & Metals Ltd.) (Creelman 0014-A1)	69																		
3	Buscemi, G. (0032-A1)			72																
4	Castonguay, J. (0011-C1)				56															
5	Concor-Chibougamau Mines Ltd. (0012, 0028)	59		59	58 59							59[2]						58		
6	Con-Shawkey Gold Mines Ltd. (0022-A1)											68		68						
7	Copenhagen Property[1]			-32		32														
8	Doyon, P., McLeod, E. C., MacIntosh, J. M. & Assocs.[1] (Assembly 1A Property)			55	55[2]	55														
9	Elkington, C. W. (Kerr Addison Mines Ltd) (0016-C1)												81							

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
10	Fano Uranium Mines Ltd. (Fano Mining & Exploration Ltd.) (0032-B1)	55		55 56		55		55						55						
11	Grant, W. (0039)			84																
12	Gui-Por Uranium Mines & Metals Ltd. (Boehme, J.D.S., Initiative Explorations Ltd.) (Creelman 0014-C1)		69					70												
13	Gulf Minerals Canada Ltd. (0010-C1, Creelman 0019)				74				72	72	72									
14	Hanna Mining Co. Ltd., The (0019)	76												76						
15	Heshka, W. (0033-E1)			73																
16	Hudson Bay Exploration & Development Ltd. (Assembly Mines Ltd., Assembly 1A Property) (0013)				67															
17	International Mine Services Ltd. (Lion Nickel Mines of Canada Ltd.) (0021)	69																		

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
18	Kerr Addison Mines Ltd. (0016-A1, 0016-B1, 0018-A1, 0018-C1, 0024)				80	80		80				80	81							
19	Leschishin, O. (0037-B1)			83																
20	Leslie, L. (0010-A1, 0011-A1, 0015-C1, 0018-B1)	53		50?	50 53 54							53								
21	Lion Nickel Mines of Canada Ltd. (International Mine Services Ltd.) (0014, 0032-C1)				69			69												
22	Lowphos Ore Ltd. (Moose Mountain Ltd., National Steel Corp. Ltd.) (0015-E1, 0031-A1, 0033-B1)	64		65	57			65				64	66							
23	MacIntosh, J. A. (0010-B1)			54	54															
24	MacKay, D. A. (0033-A1)							72												
25	Maki, O. T. (0033-D1, 0035)			82		82														

GDII FORM No.

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT	PRODUCTION	BULK SAMPLING
26	Martin, H. E. (New West Amulet Mines Ltd.) (0015-D1)				54															
27	Miron, T. (0022-B1, 0031-D1)			70 72 73								78								
28	Moose Mountain Consolidated Ltd. (0034)	80			80			81												
29	Moose Mountain Iron Mine (J. W. Gates & Associates, Moose Mountain Ltd., M. A. Hanna Co. Ltd., Lowphos Ore Co. Ltd., National Steel Corp. of Canada Ltd.) (0033-B1)						13- 20											17	07- 20 59- 79	37 46
30	National Steel Corp. of Canada Ltd. (Lowphos Ore Co. Ltd, Moose Mountain Ltd.) (0023)	66 67						66	65	65	65	62 66	66							
31	New West Amulet Mines Ltd. (Martin, H. E.) (0015-A1)				57															
32	Quadrate Explorations Ltd. (Janus Explorations Ltd.)(0026)	69						69				69		69						

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
33	Queensland Explorations Ltd. (Castonguay, J.) (0011-B1, 0025, 0031-C1)	59		59	59 60	59 60		59				59							
34	Roy, A. J. & R. J., Appleby, L. (0032-E1, 0037-A1, 0038)			82 83 84															
35	Sandex Developments Ltd. (0020, 0029, 0030)	73 74										75	75						

[1] No Assessment File

[2] No Data

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Amax Potash (Kerr Addison	KH77-1	1977	195	45	25	325	py	--
2	Mines)	KH77-2	1977	210	45	5	400	py	U, Th
3		KH77-3	1977	180	45	18	325	py	U
4	Concor-Chibougamau	1	1958	---	90	37.5	37.5	--	--
4a	(Churn Drilling)	2	1958	---	90	37.5	37.5	--	--
4b		3	1958	---	90	20	20	--	--
4c		5	1958	---	90	28.5	28.5	--	--
4d		6	1958	---	90	27.5	27.5	--	--
5		7	1958	---	90	62	62	--	--
6		8	1958	---	90	117	117	--	--
7		9	1959	---	90	33.8	33.8	--	--
7a		10	1959	---	90	92	92	--	--
7b		11	1959	---	90	37.1	37.1	--	--
7c		12	1959	---	90	65.5	65.5	--	--
7d		13	1959	---	90	107.5	197.5	--	--
7e		14	1959	---	90	57.5	57.5	--	--
7f		15	1959	---	90	84.5	84.5	--	--
7g		16	1959	---	90	140.5	140.5	--	--
7h		17	1959	---	90	62.7	62.7	--	--
7i		18	1959	---	90	103	103	--	--
7j		19	1959	---	90	No log			
7k		21	1959	---	90	No log			
8		20	1959	---	90	No log			
9	Castonquay, J.	1	1956	E	45	0	33	--	--
9a		2	1956	S80W	45	0	107	cp	--
10		3	1956	S80W	35	0	45	cp, py	--
10a		4	1956	S80W	45	0	36	py	--
10b		5	1956	S80W	55	0	50	py, cp	--
10c		6	1956	S80W	65	0	38	py, cp	--
11	Gulf Minerals Canada	H-1	1974	180	45	22	36	py, po	--
12		H-2	1974	180	45	8	361	sp, gn	--
13		H-3	1974	180	45	7	386	--	--
14		H-4	1974	180	45	12	388	--	--

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Gulf Minerals Canada, con't	H-5	1974	225	45	6	277	ra, py	--
16	Hudson's Bay Expl'n & Dev.	A28	1967	S	50	18	383	py	--
16a		A29	1967	S	50	7	313	py	--
16b		A30	1967	S	50	8.8	393	py	--
16c		A31	1967	S	50	4	324.3	py	--
16d		A32	1967	S	50	5	374.5	py, po, cp	--
17		A33	1967	S	50	4	608	py	--
18		A34	1967	S	50	6	400	py	--
18a		A35	1967	S	50	28	415	py	--
18b		A36	1967	S	50	8	435	cp, po, py	--
19		A37	1967	60	S	8.3	574	py, cp, po	--
20		A38	1967	50	S	16	475	py	--
20a		A39	1967	50	S30E	10	416.5	py	--
21		A40	1967	50	N68W	7	425	py	--
22		A41	1967	50	E	25	417.4	py	--
23		A42	1967	55	N	14.3	658.4	py	--
24		A43	1967	60	N	28.7	713.5	py	--
25		A44	1967	50	E	25	666.9	py	--
26		A45	1967	50	E	10	658	py	--
27		A46	1967	50	E	7.6	542	--	--
28		A47	1967	50	E	25	577	cp, py	--
29		A48	1967	50	S	2.2	357	py	--
30		A49	1967	50	S	4	269	py	--
31		A50	1967	50	S	8	308	py	--
32		A51	1967	45	N	2.6	422	py	--
33		A52	1967	50	N15W	4	375	py	--
34		A53	1967	50	S	4	254.5	cp	--
35		A54	1967	50	S	4	321.5	py	--
36		A55	1967	50	S	2.5	271.5	py	--
36a		A56	1967	50	S30W	3.5	242	py	--
37	Kerr Addison Mines	KVR-80-1	1980	--	90	44	44	py	Au
37a		-2	1980	--	90	48	52	py	Au
37b		-3	1980	--	90	60	60	--	Au

GDIF FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
38	Kerr Addison Mines, con't	KVR-80-4	1980	--	90	32	32	py	Au
38a		-5	1980	--	90	24	24	py	Au
38b		-6	1980	--	90	20	20	py	Au
39		-7	1980	--	90	13	20	py	Au
39a		-8	1980	--	90	9	19	py	Au
39b		-9	1980	--	90	59	59	S	Au
39c		-10	1980	--	90	64	64	py	Au
40		-11	1980	--	90	28	28	--	Au
40a		-12	1980	--	90	38	38	py	Au
40b		-13	1980	--	90	51	51	--	Au
40c		-14	1980	--	90	56	56	--	Au
41		-22	1980	--	90	108	108	py	Au
41a		-23	1980	--	90	108	108	py	Au
41b		-24	1980	--	90	108	108	--	Au
41c		-25	1980	--	90	88	88	py	Au
41d		-26	1980	--	90	92	92	py	Au
42		-27	1980	--	90	56	56	py	Au
42a		-28	1980	--	90	24	24	py	Au
42b		-29	1980	--	90	20	20	py	Au
42c		-30	1980	--	90	20	20	py	Au
43	Leslie, L.	1	1954	N40W	45	0	60	py	--
44		MS-1	1954	N61W	45	8	501	mag, py, cp	--
45		1	1953	--	90	40	40	--	--
46		1	1950	?	50	0	52	--	--
47	Lion Nickel Mines of Canada	J-1	1969	--	90	38	1064	py, po, cp	--
48		J-2	1969	250	85	8	1300	py, po, cp	--
49		J-3	1969	250	85	5	1667	py, po	--
50	Lowphos Ore	A-1	1957	--	90	3.8	163	py	--
51		A-2	1957	E	28	12	406	py, po, mag	--
52	MacIntosh, J. M.	1	1954	S36W	?	1	42	--	--
53		2	1954	S36W	?	1	51	--	--
54		3	1954	S36W	?	1	47	--	--
54a		4	1954	N30W	?	1	78	--	--

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
55	Martin, H. E.	1	1957	N60W	40	6	868	mag	--
56	Moose Mountain Cons.	M-1	1980	N30E	45	35	449	sp,cp,py,po,gn	Cu,Ni,Zn,Pb, Ag,
56a		M-2	1980	N30E	45	25	340	mag sp,cp,po,gn,asp, mag	Au,Zn,Pb,Ag, Cu
56b		M-3	1980	N18E	45	25	444	sp,cp,po,py,gn, mag	Pb,Ag,Cu,Zn
56c		M-4	1980	N50E	45	37	380	sp,gn,cp,po,mag	Pb,Ag,Cu,Zn
57		M-5	1980	N50E	45	22	142	py,asp,sp,cp,gn, po,mag	Co,Au,Pb,Ag, Cu,Zn
58	New West Amulet Mines	2	1957	N	85	3	100	--	--
58a		2A	1957	N	55	0	190	py	--
58b		3	1957	W	40	3	286	mag	Fe
59		4	1957	W	60	4	563	mag	--
60	Queensland Explorations	1	1959	080	45	0	340	po,py,cp	--
61		2	1959	360	45	101.5	101.5	--	--
61a		3	1960	---	90	90	117	mag,po,py	Fe,Si,P,S,
62	Lowphos Ore	144	?	242.5	No log				Cu,Ni,Pt,
62a		145	?	242.5	No log				Au,Ag,Co
62b		146	?	242.5	No log				
62c		148	?	242.5	No log				
62d		23 holes, no logs. Shown on plan in Kitchener file 0010-B1							

GDE FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Sandex Geophysics Ltd. Amax Potash Ltd.	Magnetic Radiometric	130' -200'	030°	660'
13	Scintrex Surveys Ltd. Gulf Minerals Canada Ltd.	Magnetic Electromagnetic Radiometric	100'	N-S	400'
30	Hunting Survey Corp. Ltd. National Steel Corp. of Canada Ltd.	Magnetic Radiometric	100'	070°	½ mile

HUTTON TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Amax Exploration Co. Ltd.	
Northern Miner	February 14, 1974
Con Shawkey Gold Mines Ltd.	
Northern Miner	January 12, 1967 December 28, 1967
Dofasco Ltd.	
Northern Miner	February 1, 1979
Lion Nickel Mines of Canada Ltd.	
Northern Miner	November 28, 1968 March 6, 1969
Murgor Mines Ltd.	
Northern Miner	July 24, 1969
National Steel Co. Ltd.	
Sudbury Star	January 16, 1979 January 20, 1979 January 22, 1979 January 24, 1979 January 29, 1979 February 20, 1979 March 7, 1979 March 12, 1979
Northern Miner	February 1, 1979
Northern Life	March 28, 1979 February 6, 1980
Nor-U Mines Ltd. (Amax Exploration)	
Northern Miner	February 14, 1974
Ontario Nickel MinesLtd. (Ajax Minerals)	
Northern Miner	September 17, 1981

NEWSPAPER CLIPPINGS IN HISTORICAL FILE

Moose Mountain Mine	
Sudbury Journal	April 17, 1902 September 8, 1910 May 4, 1911 June 1, 1911 December 6, 1911 December 2, 1920
Sudbury Star	March 23, 1932 April 15, 1933

ODM GENERAL INDEX SEARCH

Words searched:

AHN, R. H.
AMAX POTASH
APPLEBY, L.
ASSEMBLY MINES
BOHME, J. D. S.
BREWIS & WHITE
BUSCEMI, G.
CASTONGUAY, J.
CASTONGUAY, W.
CONCOR-CHIBOUGAMAU
CON-SHAWKEY GOLD MINES
COPENHAGEN GOLD CLAIMS

Index Volume	Listing:	Report Volume	Part	Page
1	AHN, ROBERT H.			
	Experiments, on placer deposits, Hanmer tp.	11		18
	Gold prospecting:			
	Vermilion river	11		82
	Work, Vermilion river	17		10
8	ASSEMBLY MINES LTD.			
	Hutton Tp. area, Sudbury Dist.	GR80		42,64-68
	report on Doyon-MacLeod-McIntosh Group	MRC9		74
8	CASTONGUAY, J.			
	Hutton Tp., Sudbury Dist.			
	mining property, report on	GR80		53
8	CASTONGUAY, W.			
	Hutton Tp., Sudbury Dist,			
	mining property, report on	GR80		41
8	CONCOR-CHIBOUGAMAU MINES			
	Hutton & Parkin Tps., Sudbury Dist.	GR80		34,38, 39,41, 42,58
9	CONCOR-CHIBOUGAMAU (PLACER) OCCURRENCE			
	Hutton Tp., Sudbury Dist.			
	report on property	MDC18		106
3	COPENHAGEN GOLD MINE, Hutton and Kitchener tps.			
	Mineralization	41	4	38
7	DOYON, PAUL			
	Uranium claims, Hutton twp.	GR1		26
8	DOYON-MACLEOD-MACINTOSH GROUP			
	Hutton Tp., Sudbury Dist.	GR80		64
		MRC9		74
5	FANO URANIUM MINES, LTD.			
	Incorporated	61	1	46
7	FANO URANIUM MINES LTD.			
	Property, Hutton twp., report	GR1		27
8	FANO MINING & EXPL. INCORP.			
	see also Fano Uranium Mines Ltd.			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

CRAIG, H.
DOYON, P., MCLEOD, E. C., MACINTOSH, J. M.
ELKINGTON, C. W.
FANO URANIUM MINES
FRASER LAKE OCCURRENCE
GATES, J. W. & ASSOC.
GIBSON LAKE PROPERTY & ASSOCS.
GRANT, W.
GREAT NORTHERN MINING CO.
GUI-POR URANIUM MINES
GULF MINERALS CANADA

Index Volume	Listing:	Report Volume	Part	Page
8	FANO URANIUM MINES LTD.			
	Hutton Tp., Sudbury Dist.	GR80		64
1	FRASER LAKE, Vermilion river			
	Gold on, alluvial	7		257
	Navigation near, difficult	10		156
3	FRASER ALLUVIAL MINING & DREDGING CO., LTD.			
	Incorporated	48	1	47
3	FRASER ALLUVIALS MINING SYNDICATE, LTD.			
	Incorporated	48	1	47
6	FRASER LAKE MINING CO. LTD.			
	Incorporated	67	1	31
8	FRASER LAKE			
	Hutton Tp., Sudbury Dist.	GR80		33,38
8	GIBSON LAKE			
	Hutton Tp., Sudbury Dist.	GR80		11
1	GREAT NORTHERN MG. EXP'N AND DEV. CO.			
	Capital and date of charter	9		10
	Gold prospecting, Capreol tp.	10		151
	License	9		116
		10		141
	Work by (1897)	7		100
	(1898)	8		102,145
9	GULF MINERALS CANADA LTD.			
	Wanapitei L. area, Sudbury Dist.	MP82		112
8	HANNA, M. A., CO.			
	Hutton Tp., Sudbury Dist.	GR80		44
		MP17		103
1	HUTTON TP., Sud.			
	Huronian	14	3	127
	Iron ore	10		186,201
		13	1	224
		16	2	31
		18	1	276
		19	2	58
	age	12		298
	analysis	16	2	16,73

ODM GENERAL INDEX SEARCH

Words searched:

HANNA MINING CO.
HESHKA, W.
HUDSON BAY EXPLORATION & DEVELOPMENT
HUTTON TP.
HUTTON TP. OCCURRENCE
INITIATIVE EXPLORATIONS
JANUS EXPLORATIONS
JENKINS, N.
JONSMITH MINES
KERR ADDISON MINES
LEITH, K.
LESCHISHIN, O.

Index Volume	Listing:	Report Volume	Part	Page
	HUTTON TP., Sud, con't			
	compared with that of:			
	Boston tp.	14	1	262
	Michipicoten mg. div.	15	1	179,180
	development, awaits railways	14	1	10,12
	Keewatin	14	1	30
		23	1	208,231
	magnetite	13	1	8
	map showing	12		321
		13	1	217
	mining	10		177,178
		16	1	39
	See also Moose Mt. iron mine			
	notes by Coleman	13	1	216-221
	prospecting	12		20,21,49
	prospects promising	16	1	16
	west of, notes by Culbert	13	1	222-224
	probability of	15	1	15
	Morainic material west of	14	3	102
	Terrace in, altitude	14	3	103
2	HUTTON TP., Sud.			
	See also Moose Mountain i. mine			
	Grenville Series	N.C.*		R106
3	HUTTON TP., Sud.			
	See also Sellwood			
	Glacial deposits	41	4	31
	Gold mg. See Copenhagen g. claims			
	Iron ore. See Moose Mtn. i. m.			
	Rocks	41	4	31,33
4	HUTTON TP., Sud.			
	Iron mg.	56	2	95
6	HUTTON TP., SUD.			
	Iron mining	67	2	105
		68	2	75
		69	2	73
7	HUTTON TOWNSHIP, Sud.			
	Iron mining			
	See Lowphos Ore Co.			
	Rocks	GR1		8,10-12
	Uranium mg. properties	GR1		26,27

* Report of the Royal Ont. Nickel Comm. 1917

GDIF FORM NC. 8

ODM GENERAL INDEX SEARCH

Words searched:

LESLIE, L.
LION NICKEL MINES OF CANADA
LOWPHOS ORE
MACINTOSH, J. A.
MACINTOSH, J. M.
MACKAY, D. A.
M. A. HANNA CO.
MAKI, O. T.
MARTIN, H. E.
MOOSE MOUNTAIN CONSOLIDATED
MOOSE MOUNTAIN IRON MINE
MOOSE MOUNTAIN IRON MINING

Index Volume	Listing:	Report Volume	Part	Page
8	HUTTON TOWNSHIP, SUDBURY DIST.			
	see also Hutton & Parkin Tps., Sudbury Dist.			
	iron	AR74		73,74
		AR75		72,73
		AR76		80,81
		AR77		67
		AR78		46
		AR79		44
		AR80		50
		GR108		41
		MP17		103,104
		MP24		29
		MRC11		342,343
	uranium	MP17		100-102
		MRC9		73,74
8	HUTTON & PARKIN TPS., SUDBURY DIST.			
	Geology of the area			
	Report & map 2180 on, 1970			
	by H. D. Meyn	GR80		
	gold	GR80		35-42
	iron	GR65		8
		GR80		42-51
	lime/cement	GR80		68,69
	nickel/copper	GR80		51-63
	sand/gravel	GR80		68,70
	summary of field work, 1966			
	by H. D. Meyn	PR66-1		35-37
	uranium	GR80		64-67
9	HUTTON TP., SUDBURY DIST.			
	gold	MDC18		106
	magnetite	MP70		221
	placer gold	MDC17		181
1	JENKINS, NORMAN STUART			
	Acknowledgments to	10		158
	Manager for Great Northern Co.	10		152
	Onaping Lake Mg. Co.	10		157
1	LEITH, DR. C. K.			
	Paper on Moose Mountain Iron Range	12		318-321
	refs. to	12		5,21, 299
		13	1	216

ODM GENERAL INDEX SEARCH

Words searched

MOOSE MOUNTAIN LTD.
NATIONAL STEEL CORP.
NEW WEST AMULET MINES
ONWATIN PLACER GOLD LTD.
ONWATIN PLACER MINING SYND.
QUADRATE EXPLORATIONS
QUEENSLAND EXPLORATIONS
ROY, A. J.
ROY, R. J.
SANDEX DEVELOPMENTS
SELLWOOD
VERMILION RIVER

Index Volume	Listing:	Report Volume	Part	Page
1	LEITH, DR. C. K., con't			
	Views on:			
	origin of iron ores, Canada	18	1	239-241, 261
8	LESLIE, L.			
	Hutton Tp., Sudbury Dist.	GR80		34,58
6	LOWPHOS ORE LTD.			
	Capital; officers; operations:			
	(1957)	67	2	105
	(1958)	68	2	74
	(1959)	69	2	73
7	LOWPHOS ORE LTD.			
	Officers; operations:			
	(1960)	70		73
	(1961)	71		78
	(1962)	72		78
	(1963)	73		76,77
8	LOWPHOS ORE LTD.			
	Hutton Tp., Sudbury Dist.			
	mining property, report on	GR65		8,33,36, 38
	report on Moose Mt. Mine	AR70		73,74
		AR75		72,73
		GR80		43
8	MACINTOSH, J. M.			
	Hutton Tp., Sudbury Dist.	GR80		34, 64
8	MARTIN, H. E.			
	Hutton Tp., Sudbury Dist.	GR80		34,58
1	MOOSE MOUNTAIN, Hutton tp.			
	Geology of, and vicinity	13	1	219,220
	rocks	13	1	204
		17		217
		22	2	134
	photo	23	1	208
	Iron ore. See Moose Mountain iron mine			
2	MOOSE MTN., Hutton tp.			
	Iron ores, notes and analysis	I.O.**		28,206, 207
	** Report of the Iron Ore Committee, 1923			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

VERMILION RIVER GOLD DREDGING CO.
VERMILION RIVER OCCURRENCE
WILLROY MINES

Index Volume	Listing:	Report Volume	Part	Page
2	MOOSE MTN., Hutton tp., con't See also Moose Mountain i. m.			
3	MOOSE MOUNTAIN, Hutton tp.			
	Altitude	41	4	30
	Iron mg. See Moose Mtn. i. m.			
1	MOOSE MOUNTAIN IRON MINE, Sellwood			
	Accidents	19	1	69,75
	Affected by slump	17		58
	Capital and date of charter	13	1	37
	Closed (1915)	25	1	79
	Equipment	17		81,217
		25	1	79
	concentration plant	22	1	27
	Grondal process	17		239
	turbine plant	23	1	112
	Magnetite ore	17		204,207
		19	1	29
	analysis	16	1	16,70
		17		21,219
	briquettes from, analysis	24	1	26,27
	character	19	1	159
	compared with Michipicoten ore	15	1	179,180
	concentration	19	1	166,167,
				171,172
	tests	17		269,271,
				273
	facing	19	1	172
	notes by Coleman	12		298,299
		13	1	216,217
	Leach	17		80
	Miller	16	1	61
	paper by Leith	12		318-321
	Maps	12		321
		13	1	217
		17		220
	Method of working	17		217
		19	1	87
		20	1	93
		23	1	123
	Operating (1915)	25	1	16
	Photos	17		218
		19	1	86
		23	1	123,206
	Production	23	1	123

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing:	Report Volume	Part	Page
1	MOOSE MOUNTAIN IRON MINE, Sellwood, con't			
	Rocks	17		217
	photo	23	1	207
	See also Moose mt.			
	Shipping (1908)	18	1	25,89
	(1909)	19	1	81,87
	(1911)	21	1	27
	(1912)	22	1	28
	Transportation for ore	17		81,219, 220
	Visited by American Institute of Mining Engineers	17		218
	Waterpower for	19	1	146
		21	1	106
	Work at (1906)	16	1	39
	(1907) (sketch)	17		219
	(1910)	21	1	93
	(1911)	21	1	112
	(1912)	22	1	101,106
	(1913)	23	1	112
	(1914)	24	1	103,104
	(1915)	25	1	79
2	MOOSE MOUNTAIN IRON MINE, Sellwood			
	Accidents	28	1	98
		30	1	60
	Briquettes, analysis	I.O.		98
	photo	I.O.		90
	shipments of	I.O.		162
	smelting of	I.O.		72,89-108
	Flow sheet of concentrating plant	28	1	113
	Grondal separator used	I.O.		37
	Idle	32	6	33
		33	1	17
	Operations (1916)	26		89
	(1917)	27	1	98
	(1918)	28	1	112
	(1919)	29	1	70
	(1920)	30	1	66
	Ore, analysis	I.O.		151
	magnetite	I.O.		28,155
	notes	I.O.		244,271
	process for, suggested	I.O.		81
	steel from, analysis; photomicrographs	I.O.		107,108
	Plant described; summary of results	I.O.		59

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	MOOSE MOUNTAIN IRON MINE, Sellwood, con't			
	Producing (1917)	27	1	28
	(1918)	28	1	30,32
	(1919)	29	1	19
	(1920)	30	1	18
	(1921)	31	1	17
	(1922)	32	1	18
	Product, notes	I.O.		268
	Report, detailed	I.O.		161-163
	Shipments to smelter	32	6	92
		33	7	98
		34	1	23
		I.O.		162
3	MOOSE MOUNTAIN IRON MINE, Hutton tp.			
	Manager and address	47	1	67
	Operations (1937)	47	1	34,231
	Report and photos	41	4	39-41
4	MOOSE MOUNTAIN IRON MINE, Hutton tp.			
	Operations (1946)	56	2	95
	Test ore shipments from	56	1	32
6	MOOSE MOUNTAIN IRON MINE, Hutton tp.			
	Lessees and operations:			
	(1957)	67	2	105
	(1958)	68	2	75
	(1959)	69	2	73
7	MOOSE MOUNTAIN IRON MINE, Hutton twp.			
	Lessees and operations:			
	(1960)	70		73
	(1961)	71		78
	(1962)	72		78
	(1963)	73		76,77
8	MOOSE MOUNTAIN MINE			
	Hutton Tp., Sudbury Dist.	74		73,74
		75		72,73
		76		80,81
		77		67
		78		46
		79		44
		80		50
		GR80		43-51
		MPBP2		38,39,41
		MP17		103,104

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	MOOSE MOUNTAIN MINE, con't			
		MRC11		342,343
9	MOOSE MOUNTAIN MINE			
	Creelman & Hutton Tps., Sudbury Dist.	ASR7		90,91
		MP71		107
		MP78		91,95
		MP91		109
		MP93	passim	188,213
2	MOOSE MOUNTAIN, LTD.			
	See also Moose Mountain i. m.			
	Capital	29	1	70
	and officers	30	1	66
	Concentrating plant, bibliography	I.O.		268
8	NATIONAL STEEL CORP. OF CANADA LTD., THE			
	Hutton Tp., Sudbury Dist.			
	mining property, report on	MP24		29
		MP34		23
		MP60		176
	report on Moose Mt. Mine	74		73,74
		75		72,73
		76		80,81
		77		67
		78		46
		79		44
		80		50
		GR80		3,43-51
		GR108		41
		MP17		103,104
9	NATIONAL STEEL COPR. OF CANADA LTD.			
	see also Lowphos Ore Ltd.			
	Hutton Tp., Sudbury Dist.	ASR4		27
		ASR5		73
	report on Moose Mt. Mine	ASR7		90,91
		MP64		106
		MP71		107
		MP78		91,95
		MP91		109
8	NEW WEST AMULET MINES LTD.			
	Hutton Tp., Sudbury Dist.			
	mining property, report on	GR80		58

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
4	ONWATIN PLACER GOLD, LTD.			
	Incorporated	59	1	45
3	ONWATIN PLACER MINING SYNDICATE, LTD.			
	Incorporated	49	1	47
4	ONWATIN PLACER MINING SYNDICATE, LTD., THE			
	Incorporated	55	1	52
8	QUEENSLAND EXPL. LTD.			
	Hutton Tp., Sudbury Dist.	GR80		34,38,39, 41,42,53, 60
9	QUEENSLAND (PLACER) OCCURRENCE			
	Hutton Tp., Sudbury Dist.			
	report on property	MDC18		106
3	SELLWOOD, Hutton tp.			
	Iron mg. See Moose Mtn. i. m.			
	Rocks	41	4	31.32
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		18	1	292
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	altitude	10		211
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		2		5
		9		199
	aluvial	12		90
		17		10
	in slate	1		175
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	report by Coleman	10		151-159
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ODM GENERAL INDEX SEARCH

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	diabase	1		76
		14	3	85
	granite	14	3	83
	Huronian	R.C.		65
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		7		257
		10		154,155
	norite	12		242
	sandstone	13	1	206
		1		86
	photo	14	3	99
	slate, carbonaceous	14	3	95
	Soil, agricultural land	5		207
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2	VERMILION RIVER, L. Huron			
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	Gold mining, alluvial	30	2	8
	Molybdenite	26		297
3	VERMILION RIVER, Spanish r.			
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		41	4	35
	Meanderings, photo frontis	38	3	
	Placer gold	41	4	36
	Pre-glacial valley	41	4	31
	West branch. See Roberts r.			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
6	VERMILION RIVER, Onwatin L.			
	Fault	65	3	34,36
	aerial photo frontis	65	3	
	Sediments, tuffaceous	65	3	81
7	VERMILION RIVER, Spanish R.			
	Rocks	GR1		13,31
	Photos	GR35		13
	Uranium mg. claims	GR1		26
8	VERMILION RIVER			
	Sudbury area, Sudbury Dist.	GR60		20,38,39
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		GR91		7,12, 36,39
		GR108		17,34,36, 40,43
		MP43		60
9	VERMILION RIVER			
	Sudbury area, Sudbury Dist.	GR181	passim	16-59, 86,88
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8	VERMILION RIVER FAULT			
	see Milnet Fault			
1	VERMILION RIVER GOLD DREDGING CO.			
	Capital and date of charter	20	1	50

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	1975	Cartier Sheet	O.D.M. Map P.287	1" = 2 miles
Card, K. D., & Lumbers, S. B.	1974-75	Sudbury-Cobalt	O.G.S. Map 2361	1" = 4 miles
Dressler, B. O.	1983	Sudbury Mining Area, Eastern Part	O.G.S. Map P.2603	1:50,000
	1984	Sudbury Geological Compilation	O.G.S. Map 2491	1:50,000
Meyn, H. D.	1966	Capreol Sheet	O.D.M. Map P.367	1" = 2 miles
		GEOPHYSICAL MAPS		
O.D.M.-G.S.C.		Aeromagnetic Maps		
	1965	Milnet, Ontario	1512G	1" = 1 mile
	1965	Venetian Lake, Ontario	1519G	1" = 1 mile
	1965	Sudbury, Ontario	7067G	1" = 4 miles
O.G.S.-G.S.C.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey	Map P.1610	1:250,000
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Burwasser, G. L.	1979	Quaternary Geology of the Sudbury Basin Area	O.G.S. Report 181 Map 2397	1:50,000
Dep't of Energy, Surveys & Mapping Branch	1975	Topographic Map, Venetian Lake Sheet, 41 I/14		1:50,000
	1975	Topographic Map, Milnet Sheet, 41 I/15		1:50,000
Gartner, J. F.	1978	N.O.E.G.T.S. Data Base Map, Cartier	5000	1:100,000
	1978	N.O.E.G.T.S. Data Base Map, Capreol	5001	1:100,000
	1978	General Construction Capability Map, Cartier	5004	1:100,000
	1980	N.O.E.G.T. Study 94, Cartier		
	1980	N.O.E.G.T. Study 95, Capreol		
Prest, V. K.	1949	The Pleistocene Geology of the Vermilion River System near Capreol, District of Sudbury, Ontario (with Special Reference to Placer Gold)	O.D.M. PR1949-2	8 pp.
		MINERAL POTENTIAL MAPS		
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario East Central Sheet	OFR 5328	1" = 16 miles

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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		GEOCHEMICAL		
		No Data Available, November 17, 1986		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1981	Hutton Township, Sudbury Data Series	O.G.S. Map P.2471	1" = ½ mile
Baer, A. J.	1970	Symposium on Basins and Geosynclines of the Canadian Shield	G.S.C. 70-40	pp. 143-158
Bell, R.	1893	Report on the Sudbury Mining District, 1890-91	G.S.C. Vol. 5, Pt. F., Annual Report	
Blue, A.	1899	Mineral Industries of Ontario	O.B.M. AR 49	
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Charlton, J. et al	1890	On the Mineral Resources of Ontario. Report of the Royal Commission		
Coleman, A. P.	1901	The Vermilion River Placers	O.B.M. AR10	pp. 151-159
	1901	Iron Ranges of the Lower Huronian	O.B.M. AR10	pp. 181-212

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	1912	Geological Map of Sudbury Nickel Region	Canada Dept. Mines, Mines Branch	1" = 1 mile
Dawson, G. M.	1896	Summary Report of the Operations of the Geological Survey	G.S.C. AR9, Pt. A, No. 164	
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Gracey, A. H.	1898	Placer Gold on Vermilion River	O.B.M. AR7, Pt. 3	pp. 256-259
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Kindle, L. F.	1932	Moose Mountain-Wanapitei Area	O.D.M. AR41, Pt. 4 Map 41E	pp. 36, 37, 38 1" = 3/4 mile
Leith, C. K.	1903	Moose Mountain Iron Range	B.O.M. AR13	pp 318-321
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Meyn, H. D.	1967	Hutton Township	O.D.M. Map P.399	1" = ¼ mile
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Miller, W. G.	1901	Iron Ores of Nipissing District	B.O.M. AR10	pp. 177, 178
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Quirke, T. T.	1922	Wanapitei Lake Map Area	G.S.C. Summary Report, 1921, Pt. D	
Robertson, J. A.	1981	The Uranium Deposits of Ontario--Their Distribution and Classification	O.G.S. MP86	
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Young, G. M.	1973	Origin of the Carbonate-Rich Early Proterozoic Espanola Formation, Ontario, Canada	G.S.A. Bull. Vol. 84	pp. 135-160
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Young, G. M., Nesbitt, H. W.	1985	The Gowganda Formation in the Southern Part of the Huronian Outcrop Belt, Ontario, Canada: Stratigraphy, Depositional and Regional Tectonic Significance	Precam. Res., Vol. 29	pp. 265-301

NOTES AND ADDENDA

Aerial Photographs Index

Scale 1" = ¼ mile

Year	Roll	Line	Numbers
1946	42	138	2-12
	40	139	58-66
	40	140	59-67
	38	141	12-20
	37	142	1-9
1959	4	4635	5-12
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	6	4633	26-33
	5	4632	78-84
	5	4631	127-133
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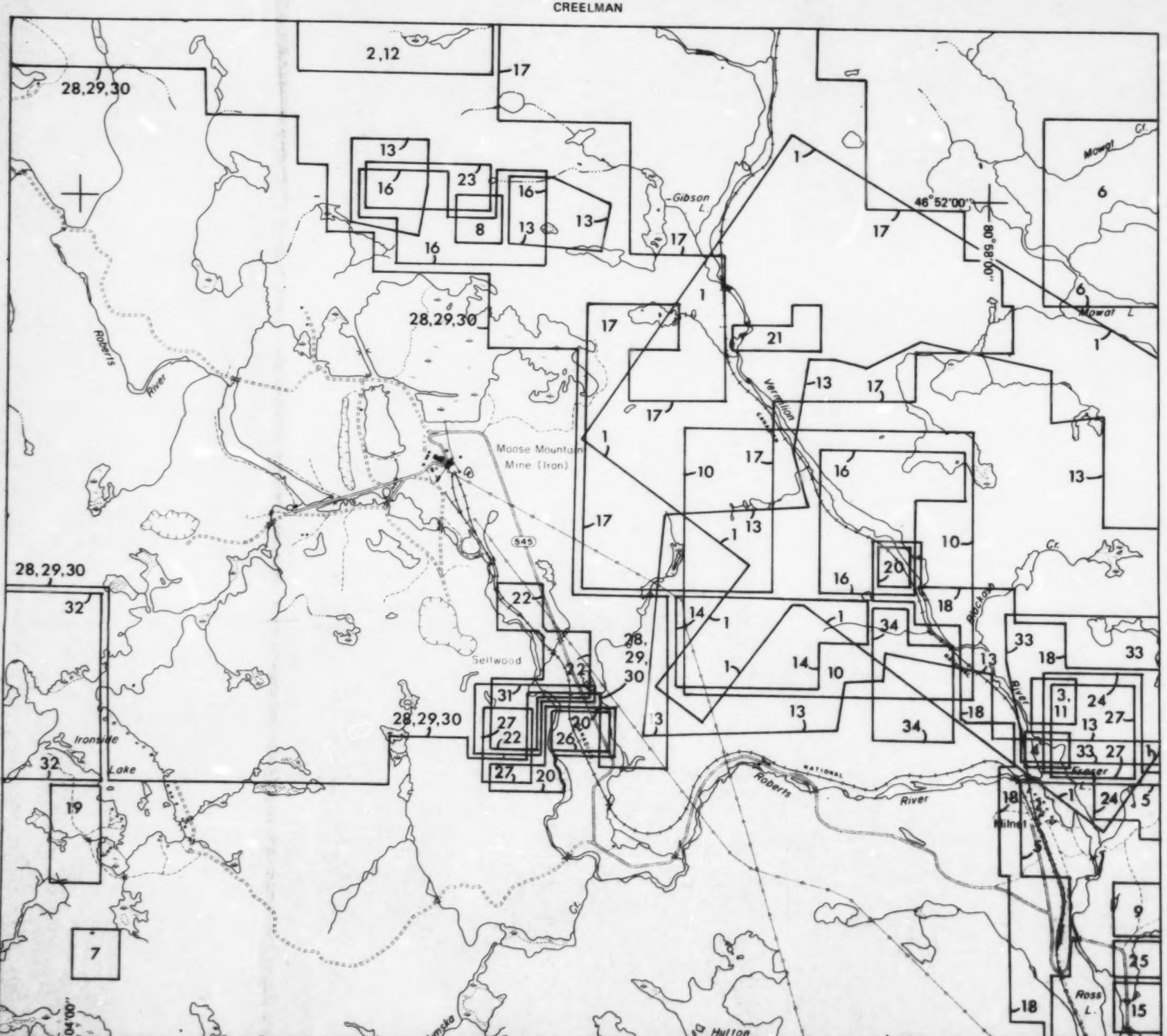
	24	4635	140-143
	24	4634	180-182
	24	4633	226-229

CREELMAN

KITCHENER

PARKIN



Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 388

(Map 1 of 2)

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 398

(Map 1 of 2)

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

KITCHENER

PARKIN

WISNER

Roberts River

Gibson L.

Moose Mountain Mine (Iron)

Sellwood

Ironside Lake

Vermilion Creek

Buckles Creek

Roberts River

Kumska Cr.

Hutton L.

Hutton Cr.

Ross L.

Mowat L.

Fraser

Milnet

46°52'00"

80°58'00"

46°48'30"

81°04'00"

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number
- GC — Geochemical Anomaly

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 18)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- Radiometric Site
- Seismic Survey deep channel location

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit

CREELMAN

KITCHENER

PARKIN

Gibson L.

Moose Mountain Mine (Iron)

Sellwood

Ironside Lake

Roberts River

Mowat L

Mowat Cr.

Blackstone

Vermilion

Minet

40°52'00"

80°58'00"

No. 11 SOUTH PIT

No. 2 NORTH PIT

No. 10 PIT

No. 2 SOUTH PIT

No. 3 PIT

9-49

CREELMAN

PARKIN

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 388

(Map 2 of 2)

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number

Geochemical Anomaly

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontalloop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly
- Radiometric Site
- Seismic Survey deep channel location

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit
- Multiple Trenches, pits

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

KITCHENER

PARKIN

WISNER

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 388

(Map 2 of 2)

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number: closely spaced group.

PARKIN

WISNER